

JEEKP103US
Sequence Listing

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<120> Glycine-Rich Proteins, Their Coding Genes and Applications

<130> JEEKP103US

<150> CN200310117354.6

<151> 2003-12-11

<160> 14

<210> 1

<211> 79

<212> PRT

<213> Homo sapiens

<400> 1

Met	Pro	Val	Ala	Val	Gly	Pro	Tyr	Gly	Gln	Ser	Gln	Pro	Ser	Cys	Phe
1				5					10					15	
Asp	Arg	Val	Lys	Met	Gly	Phe	Val	Met	Gly	Cys	Ala	Val	Gly	Met	Ala
			20					25					30		
Ala	Gly	Ala	Leu	Phe	Gly	Thr	Phe	Ser	Cys	Leu	Arg	Ile	Gly	Met	Arg
		35					40					45			
Gly	Arg	Glu	Leu	Met	Gly	Gly	Ile	Gly	Lys	Thr	Met	Met	Gln	Ser	Gly
	50					55					60				
Gly	Thr	Phe	Gly	Thr	Phe	Met	Ala	Ile	Gly	Met	Gly	Ile	Arg	Cys	
65					70					75					

<210> 2

<211> 240

<212> DNA

<213> Homo sapiens

<400> 2

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atgggcttcg	tgatgggttg	cgccgtgggc	atggcgggccg	gggcgctctt	cggcaccttt	120
tcctgtctca	ggatcggaat	gcgggggtcga	gagctgatgg	gcggcattgg	gaaaaccatg	180
atgcagagtg	gcggcacctt	tggcacattc	atggccattg	ggatgggcat	ccgatgctaa	240

<210> 3

<211> 80

<212> PRT

<213> Danio rerio

<400> 3

Met	Pro	Val	Ser	Val	Gly	Ser	Tyr	Gly	Gln	Gln	Ala	Gln	Pro	Ser	Cys
1				5					10					15	
Phe	Asp	Arg	Val	Lys	Met	Gly	Phe	Met	Met	Gly	Phe	Ala	Val	Gly	Met
			20					25					30		
Ala	Ala	Gly	Ala	Met	Phe	Gly	Thr	Phe	Ser	Cys	Leu	Arg	Ile	Gly	Met
		35					40					45			
Arg	Gly	Arg	Glu	Leu	Met	Gly	Gly	Val	Gly	Lys	Thr	Met	Met	Gln	Ser
	50					55					60				
Gly	Gly	Thr	Phe	Gly	Thr	Phe	Met	Ala	Ile	Gly	Met	Gly	Ile	Arg	Cys
65					70					75					80

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<210> 4
 <211> 128
 <212> PRT
 <213> *Anopheles gambiae*

<400> 4
 Tyr Tyr Tyr Val Ile Val Val His Cys Cys Asp Asn Thr His Phe Asn
 1 5 10 15
 Glu Phe Val Pro Lys Ile Lys Leu Pro Arg Lys Arg Tyr Val Arg
 20 25 30
 Ser Gly Ser Phe Gln Ile Leu Gln Lys Thr Asp Thr Lys Ser Thr Met
 35 40 45
 Pro Ala Val Pro Gly Gly Val Tyr Ser Gln Asn Gln Gln Pro Ser Cys
 50 55 60
 Phe Asp Arg Met Lys Met Gly Phe Thr Ile Gly Phe Cys Val Gly Met
 65 70 75 80
 Ala Ser Gly Ala Leu Phe Gly Gly Phe Ser Ala Leu Arg Tyr Gly Leu
 85 90 95
 Arg Gly Arg Glu Leu Ile Asn Asn Val Gly Lys Val Met Val Gln Gly
 100 105 110
 Gly Gly Thr Phe Gly Thr Phe Met Ala Ile Gly Thr Gly Ile Arg Cys
 115 120 125

<210> 5
 <211> 79
 <212> PRT
 <213> *Drosophila melanogaster*

<400> 5
 Met Pro Leu Pro Thr Ser Ser Phe Ser Gln Gln Gly Pro Thr Cys Phe
 1 5 10 15
 Asp Lys Met Lys Thr Gly Phe Ile Ile Gly Phe Cys Val Gly Met Ala
 20 25 30
 Ser Gly Ala Val Phe Gly Gly Phe Ser Ala Leu Arg Tyr Gly Leu Arg
 35 40 45
 Gly Arg Glu Leu Ile Asn Asn Val Gly Lys Thr Met Val Gln Gly Gly
 50 55 60
 Gly Thr Phe Gly Thr Phe Met Ala Ile Gly Thr Gly Ile Arg Cys
 65 70 75

<210> 6
 <211> 145
 <212> PRT
 <213> *Caenorhabditis elegans*

<400> 6
 Met Pro Val Pro Ser Gly Tyr Ala Ala His Pro Gln Gly Ser Gln Pro
 1 5 10 15
 Ser Cys Phe Thr Lys Ile Arg Met Gly Leu Met Met Gly Ala Met Ile
 20 25 30
 Gly Gly Ala Thr Gly Ile Leu Leu Gly Gly Phe Met Gly Phe Arg Ala
 35 40 45
 Gly Met Arg Gly Lys Asp Leu Leu Leu Gln Thr Gly Lys Thr Val Ala
 50 55 60
 Gln Ser Gly Gly Ser Phe Gly Val Phe Met Gly Val Ala Gln Gly Leu
 65 70 75 80
 Arg Tyr Ile Phe Phe Lys Asn Leu Ala Gly Thr Gly Phe Trp Pro Phe
 85 90 95
 Ser Leu Asn Phe Ser Arg Ser Ile Asp Asn Cys Pro Arg Gly Lys Val
 100 105 110
 Val Tyr Ser Thr Arg Thr Asn Ala Phe Arg Phe Thr Thr Glu Ile Glu
 115 120 125
 Lys Lys Glu Pro Arg Arg Asp Thr Gln Arg Ala Val Asn Leu Pro Gln

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140

130
Ile
145

135

<210> 7
<211> 162
<212> PRT
<213> *Caenorhabditis elegans*

<400> 7
Met Gln His Thr His Lys Glu Ala Asn Arg Arg Val Leu Gln Arg Lys
1 5 10 15
Lys Ile Asn Leu Glu Met Ser Asp Lys Ile Cys Arg Asn Leu Ile
20 25 30
Tyr Phe Gln Asn Phe Gln Ile Arg Met Gly Leu Met Met Gly Ala Met
35 40 45
Ile Gly Gly Ala Thr Gly Ile Leu Leu Gly Gly Phe Met Gly Phe Arg
50 55 60
Ala Gly Met Arg Gly Lys Asp Leu Leu Leu Gln Thr Gly Lys Thr Val
65 70 75 80
Ala Gln Ser Gly Gly Ser Phe Gly Val Phe Met Gly Val Ala Gln Gly
85 90 95
Leu Arg Tyr Ile Phe Phe Lys Asn Leu Ala Gly Thr Gly Phe Trp Pro
100 105 110
Phe Ser Leu Asn Phe Ser Arg Ser Ile Asp Asn Cys Pro Arg Gly Lys
115 120 125
Val Val Tyr Ser Thr Arg Thr Asn Ala Phe Arg Phe Thr Thr Glu Ile
130 135 140
Glu Lys Lys Glu Pro Arg Arg Asp Thr Gln Arg Ala Val Asn Leu Pro
145 150 155 160
Gln Ile

<210> 8
<211> 120
<212> PRT
<213> *Schizosaccharomyces pombe*

<400> 8
Met Gln Ser Met Gln Pro Ser Thr Val Asp Lys Leu Lys Met Gly Ala
1 5 10 15
Ile Met Gly Ser Ala Ala Gly Leu Gly Ile Gly Phe Leu Phe Gly Gly
20 25 30
Val Ala Val Leu Arg Tyr Gly Pro Gly Pro Arg Gly Phe Leu Arg Thr
35 40 45
Leu Gly Gln Tyr Met Leu Thr Ser Ala Ala Thr Phe Gly Phe Phe Met
50 55 60
Ser Ile Gly Ser Val Ile Arg Asn Glu Asp Ile Pro Leu Ile Gln Gln
65 70 75 80
Ser Gly Ser His Trp Asn Gln Arg Leu Leu Asn Glu Asn Ala Asn Ser
85 90 95
Ser Arg Ile Phe Ala Leu Ala Met Gln Gln Ala Lys Ser Ser Pro Arg
100 105 110
Lys Ser Asn Glu Val Ala Glu Cys
115 120

<210> 9
<211> 113
<212> PRT
<213> *Sacchromyces cerevisiae*

<400> 9
Met Pro Pro Leu Pro Gln Asn Tyr Ala Gln Gln Gln Pro Ser Asn Trp
1 5 10 15

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Asp Lys Phe Lys Met Gly Leu Met Met Gly Thr Thr Val Gly Val Cys
 20 25 30
 Thr Gly Ile Leu Phe Gly Gly Phe Ala Ile Ala Thr Gln Gly Pro Gly
 35 40 45
 Pro Asp Gly Val Val Arg Thr Leu Gly Lys Tyr Ile Ala Gly Ser Ala
 50 55 60
 Gly Thr Phe Gly Leu Phe Met Ser Ile Gly Ser Ile Ile Arg Ser Asp
 65 70 75 80
 Ser Glu Ser Ser Pro Met Ser His Pro Asn Leu Asn Leu Gln Gln Gln
 85 90 95
 Ala Arg Leu Glu Met Trp Lys Leu Arg Ala Lys Tyr Gly Ile Arg Lys
 100 105 110

Asp

<210> 10
 <211> 74
 <212> PRT
 <213> Arabidopsis thaliana

<400> 10
 Met Ala Lys Asn Ser Cys Leu Ala Lys Ile Thr Ala Gly Val Ala Val
 1 5 10 15
 Gly Gly Ala Leu Gly Gly Ala Val Gly Ala Val Tyr Gly Thr Tyr Glu
 20 25 30
 Ala Ile Arg Val Lys Val Pro Gly Leu His Lys Val Arg Phe Ile Gly
 35 40 45
 Gln Thr Thr Leu Ser Ser Ala Ala Ile Phe Gly Leu Phe Leu Gly Ala
 50 55 60
 Gly Ser Leu Ile His Cys Gly Lys Gly Tyr
 65 70

<210> 11
 <211> 168
 <212> PRT
 <213> Plasmodium falciparum 3D7

<400> 11
 Met Met Asn Trp Phe Arg Lys Lys Asp Ser Asn Glu Asn Lys Lys Val
 1 5 10 15
 Lys Ser Glu Tyr Asp Glu Tyr Val Thr Pro Pro Pro Phe Gly Asn Tyr
 20 25 30
 Leu Val Ser Glu Pro Lys Lys Pro Lys Ser Leu Lys Asn Asp Lys Thr
 35 40 45
 Ala Ile Thr Glu Phe Lys Gly Phe Thr Pro Pro Pro Lys Phe Glu Phe
 50 55 60
 Lys Glu Asp Ile Ser Asp Asn Lys Tyr Glu Glu Asp Phe Ser Lys Tyr
 65 70 75 80
 Thr Ser Asn Asn Ile Ile Asp Ser Ser Phe Tyr Asp Asp Lys Lys Lys
 85 90 95
 Leu Ser Asp Val Asn Leu Ser His Arg Thr Arg Ala Cys Phe Glu Ser
 100 105 110
 Ile Lys Met Gly Val Lys Met Gly Thr Met Val Gly Gly Ile Phe Gly
 115 120 125
 Ser Leu Thr Gly Ile Tyr Ala Ser Phe Ala His Lys Asn Leu Phe Ile
 130 135 140
 Leu Pro Val Ser Val Leu Gly Gly Ala Val Ser Phe Gly Phe Phe Leu
 145 150 155 160
 Gly Cys Gly Met Ile Val Arg Cys
 165

<210> 12
 <211> 167
 <212> PRT

<213> Plasmodium yoelii yoelii

<400> 12

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Met Met Asn Trp Phe Lys Lys Lys Glu Thr Thr Glu Glu Pro Gln Val
1      5      10      15
Lys Ser Glu Tyr Asp Ser Tyr Val Thr Pro Pro Pro Phe Gly Asn Tyr
20      25      30
Leu Ala Lys Lys Pro Glu Lys Pro Lys Ser Leu Lys Asn Glu Lys Ile
35      40      45
Asn Val Thr Glu Phe Lys Gly Phe Thr Pro Pro Pro Lys Phe Glu Phe
50      55      60
Lys Glu Asp Thr Thr Asp Thr Gln Tyr Asp Gln Asp Phe Ser Lys Tyr
65      70      75      80
Thr Asn Asn Asn Phe Ile Asp Ser Ser Phe Tyr Asp Asp Lys Pro Asn
85      90      95
Met Phe Asp Phe Thr Leu Ser His Arg Thr Lys Ala Cys Leu Glu Ser
100      105      110
Val Lys Met Gly Val Lys Met Gly Thr Met Val Gly Gly Ile Phe Gly
115      120      125
Ser Leu Thr Gly Leu Tyr Ala Ser Phe Ala His Lys Asn Leu Phe Ile
130      135      140
Phe Pro Val Ser Val Ile Gly Gly Ala Val Ser Phe Gly Phe Phe Leu
145      150      155      160
Gly Cys Gly Met Ile Val Arg
165

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<210> 13

<211> 107

<212> PRT

<213> Magnaporthe grisea

<400> 13

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Met Pro Pro Pro Pro Arg Gln Ala Gly His Gly Ala Ala Pro Ser Asn
1      5      10      15
Met Asp Lys Pro Val Gly Ala Ile Met Gly Phe Ile Tyr Gly Thr Val
20      25      30
Thr Val Phe Arg Gly Gly Ala Gly Pro Asn Gly Ile Met Arg Thr Ile
35      40      45
Gly Gln Tyr Met Leu Ala Ser Gly Thr Thr Phe Gly Phe Phe Met Gly
50      55      60
Ile Gly Ser Val Ile Arg Ser Asp Ala Ser Pro Ile Ser Gln Gln Ala
65      70      75      80
Tyr Phe Gln Thr Arg Pro Arg Pro Leu Ile Met Ala Ser His Arg Ala
85      90      95
Phe Arg Pro Gln Gln Ser Thr Arg Arg Asn Asp
100      105

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<210> 14

<211> 129

<212> PRT

<213> Neurospora crassa

<400> 14

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Met Pro Pro Pro Pro Gln His Gly Gly Ala Val Gly Pro Ser Asn Phe
1      5      10      15
Asp Lys Phe Lys Met Gly Ala Met Met Gly Gly Ser Pro Ser Pro Lys
20      25      30
Asp Ser Ile Asp Leu Arg Ala Cys Pro Asp Val Arg His Ser Pro Gly
35      40      45
Thr Val Asn Ile Phe Arg Tyr Gly Ala Gly Pro Asn Gly Ile Met Arg
50      55      60
Thr Leu Gly Gln Tyr Met Leu Gly Ser Gly Ala Thr Phe Gly Arg Pro
65      70      75      80

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Ser	Ser	Phe	Phe	Met	Ser	Ile	Gly	Ser	Val	Ile	Arg	Ser	Asp	Ser	Ser
				85					90					95	
Pro	Ile	Val	Ala	Glu	Ala	Tyr	Tyr	Arg	Ala	Gln	Arg	Arg	Pro	Met	Ile
			100					105					110		
Met	Ala	Ala	Gln	Ala	Phe	Arg	Pro	Ala	Tyr	Tyr	Pro	Thr	Arg	Arg	Ser
		115					120					125			
Asp															